

Project Information

Acronym: **CLONETS**

Proposal ID: **731107**

Topic: **INFRAINNOV-2016**

Duration: **30 months**

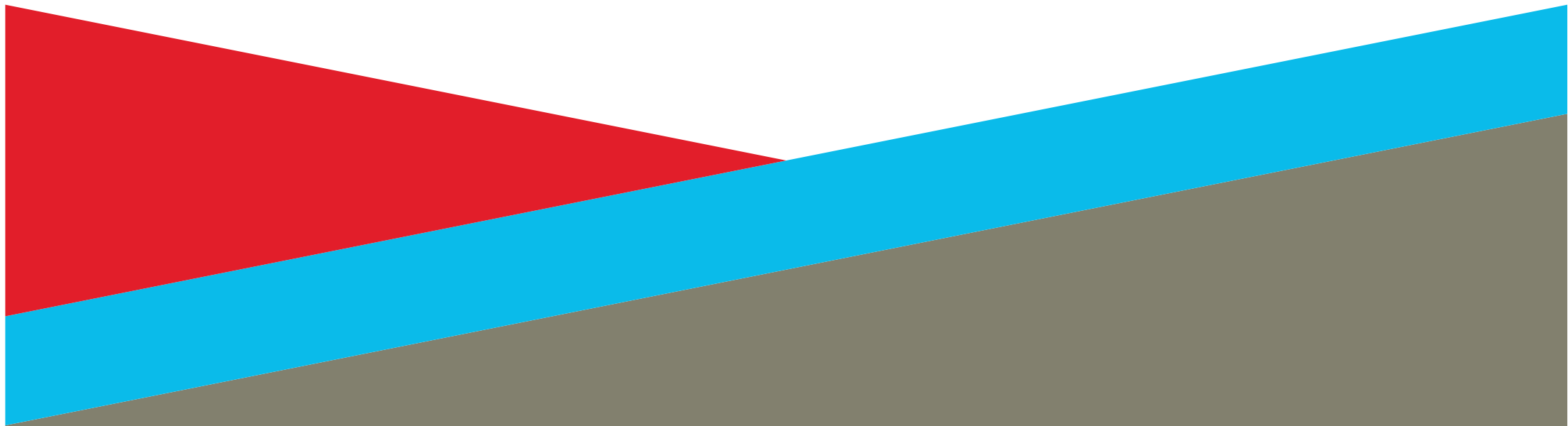
Start date: **1st January 2017**

Web page: <http://www.clonets.eu>



CLOCK NETWORK Services

Strategy and Innovation for clock services over optical-fibre networks



Coordinator: **Observatoire de Paris**

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This project receives funding from the EU's Horizon 2020 research and innovation programme (2014-2020) under grant agreement no.731107



News

Meeting:

Project partners met on 2nd CLONETS Consortium Meeting and Workshop at CESNET in Prague on the 15th-17th January 2018.

Events:

CLONETS project was presented at:

- EFTF 2018 Conference
- TNC 2018 Conference

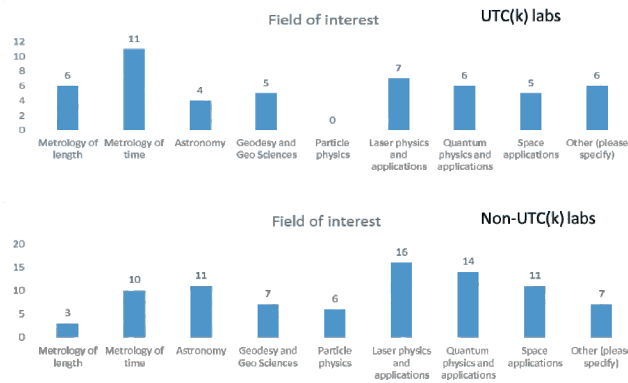
Deliverables:

D2.1 - Overall vision for time and frequency service delivery

Who needs precise T&F signals and what for?

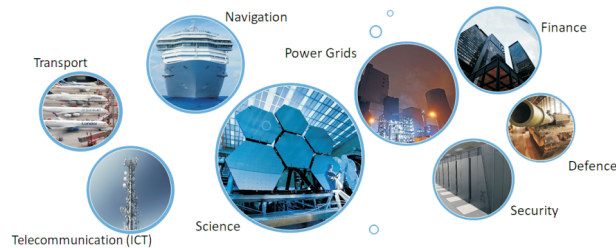
Research Institutions

The partners carried out an electronic survey involving 52 Research Institutions (RI), which needs access to precise time and frequency signals. Among these 52 RI are 17 National Measurement Institutions (NMIs). Rest of them are classified as non-NMIs. The second classification concerned on UTC and non-UTC labs. The main fields of interest depending on the group. UTC labs focus on "Metrology of time". "Laser physics and applications" is the most interesting for non-UTC labs group, but also "Quantum physics and applications", "Space applications" and "Astronomy" issues.

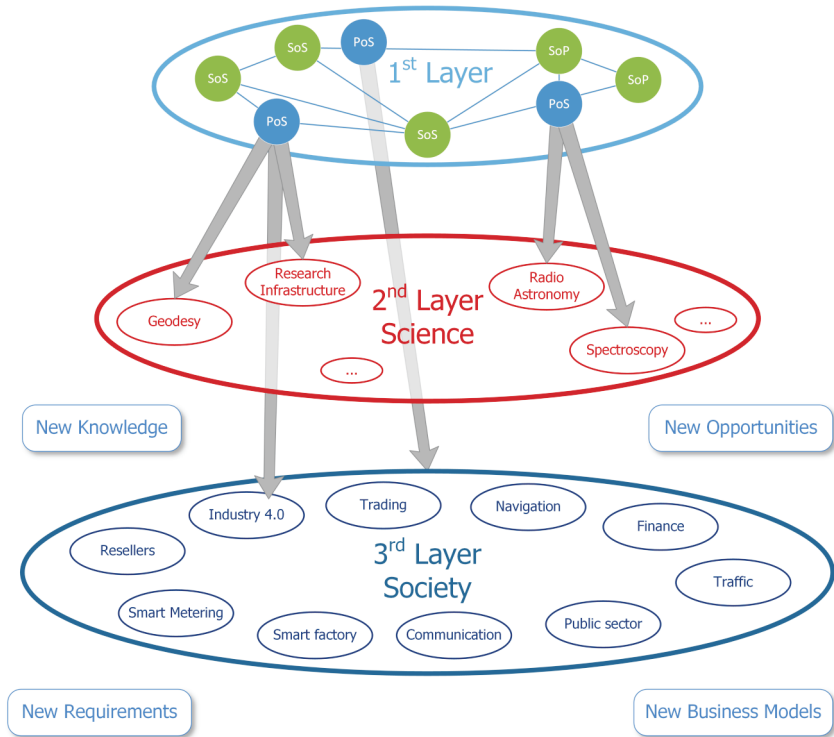


Commercial Entities

In addition to the RI, many commercial entities would also be interested in having access to T&F signals.



Overall T&F service architecture



- SoS Source of Service – provides T&F signals to the network
- PoS Point of Service – point where Regional Distributors connects end uses
- Optical Fiber Network to connect all SoS and PoS
- Network use to connect end users

T&F Service network will be composed of 3 layers:

- 1st Layer is top level fibre optic network responsible for providing reliable and highest accuracy signals across the Europe,
- 2nd Layer gathers scientific entities,
- 3rd Layer gathers commercial entities.

Project Participants